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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/512,126	10/20/2004	Jin-Hee Choi	9717.40USWO	8435	
23552 MERCHANT	7590 06/07/2007 & GOULD PC	,	EXAMINER		
P.O. BOX 2903			ANDERSON, JAMES D		
MINNEAPOLIS, MN 55402-0903			ART UNIT	PAPER NUMBER	
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			06/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1) Responsive to communication(s) filed on 18 April 2007. 2a		Application No.	Applicant(s)	111111111111111111111111111111111111111				
James D. Anderson 1614		10/512,126	CHOI ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address ¬ Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Educations of time may be available under the provides of 13 CFR 1.136(i), in no event, however, may a reply be briefy lifed where 13K (b) MOSTYSS life in the mailing date of this communication. Failure to require within the set or canded period for reply will, by statute, cause the application to section 84 AND-DOS (3) U.S. € 3 190. Any reply received by the Office is set men these more mailing date of this communication, even if timely filed, may reduce any senior advantage time application that application is FinAL. 2b) This action is FinAL. 2b) This action is no communication(s) filed on 18 April 2007. 2a) This action is FinAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.4-8.10.11 and 14 is/are pending in the application. 4a) Of the above claim(s) 6.8.10.11 and 14 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are allowed. 8) The specification is objected to. 8) The provinging filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 10) Some of the priority documents have been receive	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. □ Extensions of time may be available under the provisions of 37 CFR 1.136(a), in no event, nowever, may a reply be firmly filled □ Expensions of time may be available under the provisions of 37 CFR 1.136(a), in no event, nowever, may a reply be firmly filled □ If NO paridor for reply is specified above, the maximum attatutory period wat apply and will expire at X(b) MONTHS from the mailing date of this communication for reply is specified by the filled above, the maximum attatutory period wat apply and will expire X(b) MONTHS from the mailing date of this communication, even if smally filled, may reduce any examine patient term superstrems. Sets 97 CFR 1.74(b). Status 1) □ Responsive to communication(s) filled on 18 April 2007. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.4-8.10.11 and 14 is/are pending in the application. 4a) Of the above claim(s) € 8-10.11 and 14 is/are withdrawn from consideration. 5□ □ Claim(s) 1.4 and 5 is/are allowed. 6□ □ Claim(s) 1.4 and 5 is/are rejected. 7□ □ Claim(s) 1.4 and 5 is/are rejected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abovance. Sea 37 CFR 1.85(a). Replacement drawing sheat(s) including the correction is required if the drawing(s) is objected to. Sea 37 CFR 1.121(d). 11) □ The drawing sheat(s) including the correction is required if the drawing(s) is objected to. Sea 37 CFR 1.121(d). 11) □ All bol □ Some * c) □ None of: 1.□ Certified copies of								
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Art Unit: 1614

CLAIMS 1, 4-8, 10-11 & 14 ARE PRESENTED FOR EXAMINATION

Applicants' amendment filed 4/18/2007 has been received and entered into the application. Accordingly, claims 1, 6-8 and 10-11 have been amended and claim 14 has been added.

Newly submitted claim 14 and amended claims 6-8 and 10-11 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the originally submitted claims were all drawn to compositions. Amended claims 6-8 and 10-11 and newly submitted claim 14 recite methods of use. Applicants' arguments that the method claims should be rejoined to the composition claims are not persuasive because the method claims were not previously presented and therefore not subject to restriction.

Accordingly, it is improper to submit method claims (which could have been properly restricted if originally presented) at this point in prosecution.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 6-8, 10-11 and 14 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

In view of the above amendments, the rejection of claims 1-2, 4-8 and 10-11 under 35 U.S.C. 102(b) has been overcome and thus is *withdrawn*. However, upon further consideration the following rejections are newly applied and constitute the totality of issues remaining in the present application.

In light of the new rejections being applied against the pending claims this Office Action is **Non-Final**.

Art Unit: 1614

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(e), (f) or (g) prior art under 35 U.S.C. § 103(a).

Claims 1 and 4-5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Jackson et al. (U.S. Patent No. 5,578,641; Issued Nov. 26, 1996) (prior art of record).

The instant claims recite a composition comprising *N*, *N*-dimethylphytosphingosine and at least one phytosphingosine derivative selected from the group consisting of phytosphingosine, acetylated phytosphingosine, and ethylated phytosphingosine in a weight ratio of 1:1 (claim 1). Claims 4-5 recite a kit? comprising the composition of claim 1.

Jackson *et al.* teach pharmaceutical compositions comprising <u>one or more</u> ceramide pathway intermediates or precursors (Abstract). Said intermediates or precursors comprise sphinganine, sphingosine, phytosphingosine and derivatives thereof, including the instantly claimed *N,N*-dimethylphytosphingosine (col. 3, line 40 to col. 5, line 58; see especially col. 5, lines 34-42). The reference thus contemplates compositions comprising "one or more" of the instantly claimed compounds. The compounds of the invention are incorporated into

Art Unit: 1614

compositions comprising solid, semi-solid or liquid cosmetically and/or physiologically acceptable vehicles (col. 5, lines 60-64; col. 6, lines 7-22). Further, Jackson *et al.* teaches kits comprising the compositions, including packaging in a bottle or propellant-driven aerosol device (col. 13, lines 33-50). With respect to the instantly claimed ratio of 1:1, it would have been obvious to one of ordinary skill in the art to vary the ratio of the components in the compositions disclosed in Jackson *et al.* in order to formulate the most effective inhibition of the ceramide pathway. Such optimization is well within the purview of the skilled artisan.

The preambles of the instant claims recite intended uses, *e.g.* "An anti-cancer composition..." (Claim 1), and are viewed as non-limiting since they do not recite essential steps "necessary to give life, meaning and vitality" to the claimed subject matter. *Pitney Bowes*, 61 USPQ2d at 1165-66; *Kropa v. Robie*, 88 USPQ 478, 480-81 (CCPA 1951). The body of the claims following the preamble are self-contained descriptions of the invention ("...composition comprising N,N-dimethylphytosphingosine as an active ingredient") and do not depend on the preamble for completeness. Accordingly, even when prior art compositions are used to treat other indications or inhibit other pathways, they anticipate the instantly claimed compositions because they recite a composition comprising the instantly claimed compound.

In the absence of a showing of the criticality of the instantly claimed ratio of 1:1, the instantly claimed compositions and kits would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made. Jackson *et al.* provide the means, suggestion and motivation to formulate a composition comprising N,N-dimethylphytosphingosine and other ceramide pathway inhibitors, including the instantly claimed phytosphingosine, acetylated phytosphingosine, and ethylated phytosphingosine.

Art Unit: 1614

al.

Accordingly, the claims are deemed properly rejected as being obvious over Jackson et

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D. Anderson whose telephone number is 571-272-9038. The examiner can normally be reached on MON-FRI 9:00 am - 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patent Examiner

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Art Unit: 1614

June 5, 2007

Page 6

PHYLLUS SPIVACK